PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY				
To: JUDSON K. CHAMPLIN	PCT	15		
WESTMAN, CHAMPLIN & KELLY, P.A. SUITE 1600 - INTERNATIONAL CENTRE 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3319	NOTIFICATION OF TRANSMITTAI THE INTERNATIONAL SEARCH RE OR THE DECLARATION	LOF PORT		
	(PCT Rule 44.1)			
	Date of Mailing (day/month/year) 24 NOV 2004			
Applicant's or agent's file reference C382.13-0134	FOR FURTHER ACTION See paragraphs 1 and	4 below		
International application No. PCT/US03/30707	International filing date (day/month/year) 30 September 2003 (30.09.200	93)		
Applicant BERTNESS, KEVIN I.	DOCKETED DAW FASHC 1 12- CALED A 12 V CHECKED BY ALT V	34-05		
No. 1 of 1	ch report has been established and is transmitted herewith.			
a determent under Article 19				
The applicant is entitled, if he so wishes, to amend the cl	aims of the international approacion (see 2322			
international search report.	s normally two months from the date of transmittal of the			
Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35				
For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) addition	tional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
applicant's request to forward the texts of both the protest and the decision decision as a decision is made. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, but only in respect examination must be filed if the applicant wishes to postpone th (in some Offices even later); otherwise the applicant must, wit entry into the national phase before those designated Offices.	hin 20 months from the priority date, perform the prescri	ibed acts for		
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
·	Authorized officer ,/	112		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Carol S. Tsai	lefe		
Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (571) 272-2224			
Facsimile No. (703)305-3230 Form PCT/ISA/220 (April 2002)		companying sheet)		

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference C382.13-0134	FOR FURTHER ACTION	(Form PC' below	ration of Transmittal of International Search Report T/ISA/220) as well as, where applicable, item 5	
International application No. PCT/US03/30707	International filing date (day/mor 30 September 2003 (30.09.2003)	th/year)	(Earliest) Priority Date (day/month/year) 02 October 2002 (02.10.2002)	
Applicant BERTNESS, KEVIN I.				
This international search report has been applicant according to Article 18. A co	opy is being transmissed to	Searching A	Authority and is transmitted to the Bureau.	
This international search report consist It is also accompanie	s of a total of sheets. ed by a copy of each prior art doc	ument cite	ed in this report.	
Basis of the Report With regard to the language.	, the international search was carrie	d out on th this item.	ne basis of the international application in the	
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a trans	lation of th	he international application furnished to this	
contained in the internation	nal application in written form.			
filed together with the international application in computer readable form.				
furnished subsequently to this Authority in written form.				
furnished subsequently to	this Authority in computer readable	form.		
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.				
2. Certain claims were found unsearchable (See Box I).				
3. Unity of invention is lacking (See Box II).				
4. With regard to the title, the text is approved as sub	writted by the applicant.			
	ed by this Authority to read as follo	ws:		
5. With regard to the abstract,				
the text is approved as sub	omitted by the applicant.	A sathand	ity on it appears in Boy III. The applicant	
may, within one month fro Authority.	om the date of mailing of this interr	adonai sea	ity as it appears in Box III. The applicant arch report, submit comments to this	
6. The figure of the drawings to be p	oublished with the abstract is Figure	No. <u>1</u>		
as suggested by the applic			None of the figures	
because the applicant faile	ed to suggest a figure.			
because this figure better	characterizes the invention.			

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/30707

CID MATTED		
A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : H01M 10/44	a discount IDC	
US CL: 702/63 According to International Patent Classification (IPC) or to both na	tional classification and It C	
1 1/-lessification system followed b	by classification symbols)	
Minimum documentation searched (classification system) U.S.: 702/63,65; 320/134,136,106; 340/636.1; 324/426,427,4	429,434	
		the folds searched
Documentation searched other than minimum documentation to the	extent that such documents are included	in the fields searched
Documentation searched officer than minimum		
•		
Electronic data base consulted during the international search (nam	ee of data base and, where practicable, so	earch terms used)
Electronic data base consulted during the international search (name	le of dian out ———,	
East Search		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.
- diagtion where an	goo Abstract lines 4-9: col. 3. lines	1, 2, 6-9, 17-31, 35-
V US 6:424, 158 B (Klang) 23 July 2002 (23.07.2002)	, ace Austract, interior, and	38, 46-55
18-19; and col. 5, lines 26-39.		3-5, 10-16, 32-34, 39-
Y		3-5, 10-16, 32-34, 35- 45
		-10
	1 2 1ings 47-67	3-5, 32-34
Y \ U8-6,316,914 B (Bertness) 13 November 2001 (13.	11.2001), see cor. 5, mics 47.07.	•
Y US 4,360,780 (Skutch, Jr) 23 November 1982 (23.1		10, 39
Y US 4,723,656 (Kiernan et al) 9 February 1988 (09.0	11, 40	
		12, 41
Y US 5,432,025 (Cox) 11 July 1995 (11.07.1995), see	e Abstract, lines 1-5	12, 12
1	13, 42	
Y US 6,008,652 (Theofanopoulos et al) 12 December		
Y US 4,874,679 (Miyagawa) 17 October 1989 (17.10	14, 15, 43, 44	
Y US 4,874,679 (Miyagawa) 17 October 1969 (1717)		
		•
Further documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents:	"T" later document published after the ir priority date and not in conflict with	iternational filing date or
the art which is not considered to	understand the principle or theory w	nderlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	warn document of particular relevance: th	e claimed invention cannot be
"E" earlier application or patent published on or after the international filing	considered novel or cannot be consistep when the document is taken alo	dered to involve an inventive
date		
"L" document which may throw doubts on priority claim(s) or which is cited	"Y" document of particular relevance; the considered to involve an inventive s	tep when the document is
to establish the publication date of another citation or other special reason (as specified)	combined with one or more other su combination being obvious to a pers	ch documents, such
the leaves use exhibition or other means		
•	"&" document member of the same paten	t ramily
"P" document published prior to the international filing date but later than the	The state of the international car	arch report
Date of the actual completion of the international search	Date of mailing of the international sea	TOT TOPOTE
	64 NOV 2007	
22 July 2004 (22.07.2004) Name and mailing address of the ISA/US	Authorized officer) fell
Mail Stop PCT, Attn: ISA/US	Carol S. Tsai	- den
Commissioner for Patents	·	10,
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (571) 272-2224	
Facsimile No. (703)305-3230		
1 1 CT-1 1009)		

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.